	FILE 'MEDL	INE, BIOSIS, CAPLUS' ENTERED AT 10:08:03 ON 09 OCT 2002
L2		S (5! OR 6! OR 7! OR 8! OR 9! OR 100) (5A) (MER# OR NUCLEOTIDE#
L3		S L2 AND (ARRAY# OR CHIP# OR MICROARRAY# OR BIOCHIP#)
L4	30770	S L2 AND (ARRAY# OR CHIP# OR MICROARRAY# OR BIOCHIP# OR SUPPORT
L5	1520	S L2 (9A) (ARRAY# OR CHIP# OR MICROARRAY# OR BIOCHIP# OR SUPPOR
L6		S L5 AND HYBRIDI?
ь7		DUP REM L6 (119 DUPLICATES REMOVED)
r_8		S L2 (9A) (CHIP# OR MICROARRAY# OR BIOCHIP# OR SUPPORT# OR MEMB
L9		S L8 AND PY<1999
L10		S L2 (9A) (CHIP# OR MICROARRAY# OR BIOCHIP# OR DNA(W)ARRAY#)
L11		DUP REM L10 (115 DUPLICATES REMOVED)
L12		S L11 AND (DNA OR NUCLEIC OR OLIGO?)
L13		S L2 (9A) (ATTACH? OR BOUND OR IMMOBIL? OR LINK?) (4A) (MEMBRAN
L14		DUP REM L13 (15 DUPLICATES REMOVED)
L15		S L2 (5A) (OLIGO# OR OLIGONUCLEOTIDE# OR PROBE#)
L16		S L15 (9A) (IMMOBIL? OR ATTACH? OR BOUND)
L17		DUP REM L16 (88 DUPLICATES REMOVED)
L18		DUP REM L15 (692 DUPLICATES REMOVED)
L19		S L18 NOT 96
L20		S L18 (9A) BLOT#
L21		S L2 (6A) SPOT?
L22		DUP REM L21 (29 DUPLICATES REMOVED)
L23		S L15 (9A) (LINK?)
L24		DUP REM L23 (5 DUPLICATES REMOVED)
L25		S LONG (9A) (OLIGO?) (9A) L2
L26	54	DUP REM L25 (60 DUPLICATES REMOVED)
FILE 'USPATFULL' ENTERED AT 10:40:12 ON 09 OCT 2002		
L27		
L28		S L27 (9A) (IMMOBIL? OR BOUND OR ATTACH? OR LINK?) (9A) (OLIGO?
L29		S L27 (5A) (IMMOBIL? OR BOUND OR ATTACH?) (5A) (CHIP# OR MEMBRA

=>

=> d 27, 28, 44, 65 bib ab kwic L29 ANSWER 27 OF 80 USPATFULL 2002:156998 USPATFULL ΑN

Compositions and methods for detecting and quantifying gene expression TI

Lowe, David G., Hillsborough, CA, UNITED STATES IN Marsters, James C., JR., Oakland, CA, UNITED STATES

Robbie, Edward P., San Francisco, CA, UNITED STATES

Smith, Victoria, Burlingame, CA, UNITED STATES

PΑ GENENTECH, INC. (U.S. corporation) US 2002081597 A1 20020627 ΡI US 2001-823648 A1 20010330 (9) AΤ PRAI US 2000-193767P 20000331 (60)

DТ Utility FS APPLICATION

GENENTECH, INC., 1 DNA WAY, SOUTH SAN FRANCISCO, CA, 94080 LREP

Number of Claims: 104 CLMN Exemplary Claim: 1 ECL 5 Drawing Page(s) DRWN

LN.CNT 2621

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Compositions and methods for improving detection sensitivity in nucleic AΒ acid microarray analysis are disclosed, including methods of purifying nucleic acids, methods of synthesizing fluorescent DNA probes, methods of hybridization, and methods of activating a substrate for target molecule attachment are disclosed.

[0182] Single stranded DNA molecules, such as chemically DETD synthesized target oligonucleotides of approximately 50 to 100 nucleotides in length were immobilized onto activated microarray slides of the invention (e.g. aminosilane in toluene/PDITC-treated glass) by standard microarray printing techniques. The printing solution comprised oligonucleotides at.

L29 ANSWER 28 OF 80 USPATFULL

2002:148656 USPATFULL ΑN

Compositions and methods for modulating TGF-beta signaling ΤI

Wang, Tongwen, Seattle, WA, UNITED STATES TN

PΙ US 2002076799 A1 20020620 US 2001-927738 Α1 20010810 (9) ΑI

Continuation-in-part of Ser. No. WO 2000-US3561, filed on 11 Feb 2000, RLI UNKNOWN

19990211 (60) PRAI US 1999-119786P

Utility DT

APPLICATION FS

PALMER & DODGE, LLP, KATHLEEN M. WILLIAMS / STR, 111 HUNTINGTON AVENUE, LREP BOSTON, MA, 02199

Number of Claims: 43 CLMN ECL Exemplary Claim: 1 DRWN 45 Drawing Page(s)

LN.CNT 5961

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides novel compositions comprising a Smad protein and AΒ an isolated protein component of the proteasome-mediated degradation pathway. The invention also provides novel compositions comprising a Smad1 protein and a substrate for proteasome-mediated degradation. The invention also provides methods of screening for compounds that modulate the interaction between the proteins comprising these compositions. The invention also provides methods of screening for compounds that modulate the activity of the proteins comprising these compositions. The invention also provides methods of detecting proteasome-mediated

degradation of novel Smad interacting proteins. A further aspect of the invention is a kit for detecting proteasome-mediated degradation of novel Smad interacting proteins. The invention also provides methods of treating diseases which are associated with aberrant levels of activity of a TGF-.beta. superfamily member.

DETD . . . art (Sambrook et al, 1988, supra; Ausubel et al., 1989, supra).

The specific conditions given below are for hybridization using

oligonucleotide probes less than or equal to

70 nucleotides long and DNA

immobilized on nylon membrane. One of skill in the art

may readily adapt these conditions for use with probes longer than 70 nt, for. . .

L29 ANSWER 44 OF 80 USPATFULL

AN 2002:22075 USPATFULL

TI AUTOMATED HYBRIDIZATION/IMAGING DEVICE FOR FLUORESCENT MULTIPLEX DNA SEQUENCING

IN WEISS, ROBERT B., SALT LAKE CITY, UT, UNITED STATES KIMBALL, ALVIN W., SALT LAKE CITY, UT, UNITED STATES GESTELAND, RAYMOND F., SALT LAKE CITY, UT, UNITED STATES FERGUSON, F. MARK, SALT LAKES CITY, UT, UNITED STATES DUNN, DIANE M., WEST VALLEY CIT, UT, UNITED STATES DI SERA, LEONARD J., SALT LAKE CITY, UT, UNITED STATES CHERRY, JOSHUA L., SALT LAKE CITY, UT, UNITED STATES

PI US 2002012910 A1 20020131

AI US 1995-563462 A1 19951128 (8)

RLI Division of Ser. No. US 1993-141234, filed on 22 Oct 1993, GRANTED, Pat.

No. US 5470710

DT Utility

FS APPLICATION

LREP ALAN J HOWARTH, PO BOX 1909, SANDY, UT, 84091

CLMN Number of Claims: 82 ECL Exemplary Claim: 1 DRWN 8 Drawing Page(s)

LN.CNT 1487

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A method is disclosed for automated multiplex sequencing of DNA with an integrated automated imaging hybridization chamber system. This system comprises an hybridization chamber device for mounting a membrane containing size-fractionated multiplex sequencing reaction products, apparatus for fluid delivery to the chamber device, imaging apparatus for light delivery to the membrane and image recording of fluorescence emanating from the membrane while in the chamber device, and programmable controller apparatus for controlling operation of the system. The multiplex reaction products are hybridized with a probe, then an enzyme (such as alkaline phosphatase) is bound to a binding moiety on the probe, and a fluorogenic substrate (such as a benzothiazole derivative) is introduced into the chamber device by the fluid delivery apparatus. The enzyme converts the fluorogenic substrate into a fluorescent product which, when illuminated in the chamber device with a beam of light from the imaging apparatus, excites fluorescence of the fluorescent product to produce a pattern of hybridization. The pattern of hybridization is imaged by a CCD camera component of the imaging apparatus to obtain a series of digital signals. These signals are converted by the controller apparatus into a string of nucleotides corresponding to the nucleotide sequence an automated sequence reader. The method and apparatus are also applicable to other membrane-based applications such as colony and plaque hybridization and Southern, Northern, and Western blots.

DRWD [0033] FIG. 6 shows the detection limit of a membrane-

bound 75-mer oligonucleotide in a

single direct transfer electrophoresis sequence band wherein the 75-mer

oligonucleotide was probed with a complementary 25-mer oligonucleotide labeled. [0034] FIG. 7 shows the detection limit of a membrane-DRWD bound 75-mer oligonucleotide in a single direct transfer electrophoresis sequence band wherein the 75-mer oligonucleotide was labeled directly with a single 5' biotin. L29 ANSWER 65 OF 80 USPATFULL 2000:31201 USPATFULL ΑN Method for detection of non-denatured nucleic acid fragments ΤI Ebersole, Richard C., Wilmington, DE, United States IN Hendrickson, Edwin R., Hockessin, DE, United States Payne, Mark S., Wilmington, DE, United States Fitzpatrick-McElligott, Sandra, Rose Valley, PA, United States Majarian, William R., Mt. Royal, NJ, United States Rafalski, Jan A., Wilmington, DE, United States E. I. du Pont de Nemours and Company, Wimington, DE, United States (U.S. PA corporation) 20000314 PΙ US 6037127 19971126 (8) US 1997-979269 ΑI Continuation-in-part of Ser. No. US 1997-863265, filed on 27 May 1997, RLI now abandoned which is a continuation of Ser. No. US 1995-530795, filed on 20 Sep 1995, now abandoned which is a continuation of Ser. No. US 1994-221769, filed on 31 Mar 1994, now abandoned DTUtility FS Granted Primary Examiner: Horlick, Kenneth R. EXNAM Number of Claims: 11 CLMN Exemplary Claim: 1 ECL DRWN 20 Drawing Figure(s); 13 Drawing Page(s) LN.CNT 2367 CAS INDEXING IS AVAILABLE FOR THIS PATENT. A method for detecting the presence of a nucleic acid analyte in a test AB sample is provided in which a test sample is contacted with a test strip of a chromatographic bibulous porous material which is capable of moving the test sample laterally along the test strip by capillary migration to ultimate capture by a moiety in a specific capture zone. Three single-stranded probes ranging in size from 45-DETD 57 nucleotides in length were irreversibly immobilized to nitrocellulose membranes at three capture zones using ultraviolet irradiation of 1.5 Joules/cm.sup.2. . . [SEQ ID NO: 24] VE1862: 5'-CATACCTTCTGGTGCTAGAG-3' [SEQ ID NO: 25] [2] Probe immobilized for hybridization on membrane to VEE target DNA: 5'-TAATCCTGTAGGCAGAGAACTCTATACTCATCCCCCAGAA-3' [SEQ ID NO: 26] [3] Probe immobilized on membrane to 99 base target DNA (57 mer)5' ACA GCA CCA CAG ACC ACG CAA CTC TAG AGG ATC CCG GGT ACT GTT TGT CTT CCT GCC. => d his (FILE 'HOME' ENTERED AT 10:07:01 ON 09 OCT 2002) FILE 'MEDLINE, CAPLUS' ENTERED AT 10:07:08 ON 09 OCT 2002 FILE 'MEDLINE' ENTERED AT 10:07:35 ON 09 OCT 2002 L113 S JEFF!